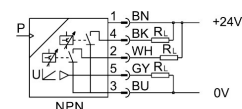# Pressure sensor
# SPAW-P100R-G14F-2NV-M12

Part number: 8022838

# Data sheet

| Feature | Value |
|---|---|
| Approval | RCM trademark<br>c UL us listed (OL) |
| CE mark (see declaration of conformity) | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions |
| Note on materials | RoHS-compliant |
| Measured variable | Relative pressure |
| Measurement method | Metal thin-film pressure sensor |
| Start value for pressure measuring range | 0 MPa<br>0 bar<br>0 psi |
| End value for pressure measuring range | 10 MPa<br>100 bar<br>1450 psi |
| Overload pressure | 20 MPa<br>200 bar<br>2900 psi |
| Operating medium | Compressed air to ISO 8573-1:2010 [-:-:-]<br>Liquid media<br>Gaseous media |
| Media temperature | -20 °C...85 °C |
| Ambient temperature | 0 °C...80 °C |
| Accuracy in ± % FS | 1 %FS |
| Repetition accuracy in ± %FS | 0.15 %FS |
| Switching output | 2xNPN |
| Switching function | Freely programmable |
| Switching element function | Switchable |
| Max. output current | 250 mA |
| Analogue output | 0 - 10 V |
| Rise time | 3 ms |
| Short circuit current rating | yes |
| Operational voltage range DC | 15 V...35 V |
| Reverse polarity protection | For operating voltage |

| Feature | Value |
|---|---|
| Electrical connection 1, connection type | Plugs |
| Electrical connection 1, connector system | M12x1, A-coded to EN 61076-2-101 |
| Electrical connection 1, number of connections/cores | 5 |
| Electrical connection 1, type of mounting | Screw-type lock |
| Type of mounting | Via female thread<br>With accessories |
| Pneumatic connection | Female thread G1/4 |
| Product weight | 230 g |
| Material housing | ABS<br>High-alloy stainless steel |
| Material in contact with the medium | High-alloy stainless steel |
| Display type | 4-place alphanumeric<br>LED indicator |
| Displayable units | MPa<br>bar<br>kPa<br>kg/cm²<br>psi |
| Switching status indication | Red LED |
| Setting options | Via display and keys |
| Protection against tampering | PIN code |
| Setting range threshold value | 0.5 %...100 % |
| Setting range hysteresis | 0.5 %...99.5 % |
| Degree of protection | IP65<br>IP67 |
| Corrosion resistance class CRC | 4 - Very high corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |